

REDUCED CENTER BURNER IN MULTI-BURNER COMBUSTOR AND
METHOD FOR OPERATING THE COMBUSTOR

ABSTRACT OF THE DISCLOSURE

A single stage combustor for a gas turbine having an annular array of outer fuel nozzles arranged about a center axis of the combustor; a center fuel nozzle aligned with the center axis, wherein the center fuel nozzle is substantially smaller than each of the outer fuel nozzles, wherein the combustor includes a pre-mix operating mode in which the center nozzle receives a fuel rich air-fuel mixture.